We claim:

1. A substantially purified nucleic acid molecule that encodes a soybean protein or fragment thereof comprising a nucleic acid sequence selected from the group consisting of SEQ ID NO: 5278 through SEQ ID NO: 15553.

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 A substantially purified soybean protein or fragment thereof, wherein said soybean protein is encoded by a nucleic acid molecule that comprises a nucleic acid sequence selected from the group consisting of SEQ ID NO: 5278 through SEQ ID NO: 15553.

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- 3. A transformed plant having a nucleic acid molecule which comprises:
 - (a) an exogenous promoter region which functions in a plant cell to cause the production of a mRNA molecule;
 - (b) a structural nucleic acid molecule comprising a nucleic acid sequence selected from the group consisting of SEQ ID NO: 5278 through SEQ ID NO: 15553 or complements thereof;
 - (c) a 3' non-translated sequence that functions in said plant cell to cause termination of transcription and addition of polyadenylated ribonucleotides to a 3' end of said mRNA molecule.
- 4. The transformed plant according to claim 3, wherein said structural
 nucleic acid molecule is a complement of any of the nucleic acid sequences of SEQ ID
 NO: 5278 through SEQ ID NO: 15553.
 - 5. The transformed plant according to claim 4, wherein said plant is soybean or maize.
 - 6. The transformed plant according to claim 4, wherein said plant is maize.

7. The transformed plant according to claim 4, wherein said plant is soybean.